

**LIST OF PRIOR ART CITED BY
APPLICANT
SUBSTITUTION FOR
(PTO-1449)**

ATTY. DOCKET NO.
CI-0019C4

APPLN. SERIAL NO.
Cont. of 09/533,547

APPLICANT
Randall S. KENT and Edward HORTON

FILING DATE
October 29, 2003

GROUP
1744

U.S. PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE
EM	A1	RE 23,195	02/1950	Arno Brasch			
	A2	2,832,689	04/1958	Bernard E. Proctor et al.			
	A3	2,920,969	01/1960	E.S. Stoddard			
	A4	2,962,380	11/1960	J.H. Wertheim			
	A5	3,620,944	11/1971	Keiko Tanito			
	A6	3,743,480	07/1973	John D. Falk			
	A7	3,779,706	12/1973	Nablo			
	A8	4,136,094	01/1979	Condie			
	A9	4,251,437	02/1981	Rasmussen et al.			
	A10	4,282,863	08/1981	Beigler et al.			
	A11	4,330,626	05/1982	Blair et al.			
	A12	4,336,247	06/1982	Eriksen			
EM	A13	4,370,264	01/1983	Kotitschke et al.			

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER'S INITIALS	CITE NO.	*PATENT APPLN. PUB. NO.	*PUBLICATION DATE	*APPLICANT	CLASS	SUBCLASS	FILING DATE
EM	B1	US2002/0064807 A1	05/30/02	BADYLAK et al.	435	34	11/14/01

U.S. PATENT APPLICATIONS

*EXAMINER'S INITIALS	CITE NO.	*APPLN. NO.	*FILING DATE	*INVENTOR	CLASS	SUBCLASS	
	C1						

FOREIGN PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*PUBLICATION DATE	*COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
EM	D1	2,056,619	10/1991	Canada				
	D2	310 316	04/1989	Europe				
	D3	334 679	09/1989	Europe				
	D4	919 198 A2	06/1999	Europe (Abstract)			X	
EM	D5	919 198 A3	06/1999	Europe (Abstract)			X	

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*EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
EM	E1	AABB FDA Liaison Meeting, ABC Newsletter, p. 14 (December 12, 1997)
EM	E2	Alladine, M.F. et al., γ -Radiation Damage to Starr-Edwards Valves, The Lancet, 1:594 (1968)
EM	E3	Alper, T. et al., Protection by Anoxia of the Scrapie Agent and some DNA and RNA Viruses Irradiated as Dry Preparations, J. Gen. Virol., 3:157-166 (1968)

EXAMINER

Elizabeth L McKane

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EM	A14	4,409,105	10/1983	Hayashi et al.			
	A15	4,472,840	09/1984	Jefferies			
	A16	4,620,908	11/1986	Van Duzer			
	A17	4,784,850	11/1988	Abraham			
	A18	4,798,611	01/1989	Freeman Jr.			
	A19	4,865,602	09/1989	Smestad et al.			
	A20	4,931,361	06/1990	Baldeschwieler et al.			
	A21	4,933,145	06/1990	Uchida et al.			
	A22	4,946,648	08/1990	Dichtelmüller et al.			
	A23	4,963,356	10/1990	Calenoff et al.			
↓	A24	5,000,951	03/1991	Bass et al.			
EM	A25	5,012,503	04/1991	Nambu et al.			
	A26	5,044,091	09/1991	Ueda et al.			

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER'S INITIALS	CITE NO.	*PATENT APPLN. PUB. NO.	*PUBLICATION DATE	*APPLICANT	CLASS	SUBCLASS	FILING DATE
EM	B2	US2001/0049141 A1	12/06/01	FIKE et al.	435	384	02/13/98

U.S. PATENT APPLICATIONS

*EXAMINER'S INITIALS	CITE NO.	*APPLN. NO.	*FILING DATE	*INVENTOR	CLASS	SUBCLASS	
	C2						

FOREIGN PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*PUBLICATION DATE	*COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
EM	D6	11-216147	08/1999	Japan (Abstract)			X	
	D7	1321420-A	07/1987	Soviet Union (Abstract)			X	
↓	D8	WO 90/00907	02/1990	PCT Int'l				
	D9	WO 91/16060	10/1991	PCT Int'l				
EM	D10	WO 95/03071	02/1995	PCT Int'l				

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*EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
EM	E4	Alper, T. et al., Does the Agent of Scrapie Replicate Without Nucleic Acid?, Nature, 214:764-766 (1967)
EM	E5	Alper, T. et al., The Exceptionally Small Size of the Scrapie Agent, Biochemical and Biophysical Research Communications, 22:278-284 (1966)
EM	E6	Alper, T. et al., The Scrapie Agent: Evidence Against its Dependence For Replication on Intrinsic Nucleic Acid, J. Gen. Virol., 41:503-516 (1978)

EXAMINER Elizabeth L
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EM	A27	5,106,619	04/1992	Wieschahn et al.			
	A28	5,134,295	07/1992	Wälischmiller			
	A29	5,185,371	02/1993	Rubinstein			
	A30	5,226,065	07/1993	Held et al.			
	A31	5,283,034	02/1994	Okrongly et al.			
	A32	5,362,442	11/1994	Kent			
	A33	5,418,130	05/1995	Platz. et al.			
	A34	5,460,962	10/1995	Kemp			
	A35	5,510,122	04/1996	Sreebny et al.			
	A36	5,548,066	08/1996	Leneau et al.			
↓	A37	5,603,894	02/1997	Aikus et al.			
	A38	5,609,864	03/1997	Shanbrom			
EM	A39	5,637,451	06/1997	Ben-Hur et al.			

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER'S INITIALS	CITE NO.	*PATENT APPLN. PUB. NO.	*PUBLICATION DATE	*APPLICANT	CLASS	SUBCLASS	FILING DATE
EM	B3	US2002/0106394 A1	08/08/02	TUCKER et al.	424	423	09/18/01

U.S. PATENT APPLICATIONS

*EXAMINER'S INITIALS	CITE NO.	*APPLN. NO.	*FILING DATE	*INVENTOR	CLASS	SUBCLASS	
	C3						

FOREIGN PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*PUBLICATION DATE	*COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
EM	D11	WO 00/25839	03/2000	PCT Int'l (Abstract)			X	
↓	D12	WO 01/08611A1	02/2001	PCT Int'l (Abstract)			X	
	D13	WO 01/12318A1	02/2001	PCT Int'l				
↓	D14	WO 01/32107A2	05/2001	PCT Int'l (Abstract)			X	
EM	D15	WO 01/32110A2	05/2001	PCT Int'l (Abstract)			X	

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*EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
EM	E7	Akkus, O. et al., Fracture Resistance of Gamma Radiation Sterilized Cortical Bone Allografts, J. Orthopaedic Research, 19:927-934 (2001) (Elsevier Science Ltd.)
EM	E8	Aparicio, S.R. et al., Light and Electron Microscopy Studies on Homograft and Heterograft Heart Valves, J. Path., 115:147-162 (1975)
EM	E9	Baksa, J. et al., The Use of Pig's Skin (xenograft) for the Treatment of Burns, Magyar Traumatologia, 19:138-145 (1976)

EXAMINER Elizabeth L McKane

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EM	A40	5,643,464	07/1997	Rhee et al.			
	A41	5,712,086	01/1998	Horowitz et al.			
	A42	5,730,933	03/1998	Peterson			
	A43	5,817,528	10/1998	Böhm et al.			
	A44	5,837,313	11/1998	Ding et al.			
	A45	5,856,172	01/1999	Greenwood et al.			
	A46	5,881,534	03/1999	Ahlqvist et al.			
	A47	5,981,163	11/1999	Horowitz et al.			
	A48	5,986,168	11/1999	Noishiki			
	A49	5,989,498	11/1999	Odland			
↓	A50	6,010,719	01/2000	Remon et al.			
EM	A51	6,046,024	04/2000	Burton et al.			
	A52	6,049,025	04/2000	Stone et al.			

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER'S INITIALS	CITE NO.	*PATENT APPLN. PUB. NO.	*PUBLICATION DATE	*APPLICANT	CLASS	SUBCLASS	FILING DATE
EM	B4	US 2002/0188319 A1	12/12/02	MORRIS et al.	606	213	06/10/02

U.S. PATENT APPLICATIONS

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	C4						

FOREIGN PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*PUBLICATION DATE	*COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
EM	D16	WO 01/45720A1	06/2001	PCT Int'l (Abstract)			X	
	D17	WO 01/49219A1	07/2001	PCT Int'l				
↓	D18	WO 01/72233A1	10/2001	PCT Int'l (Abstract)			X	
	D19	WO 01/72244A1	10/2001	PCT Int'l (Abstract)			X	
EM	D20	WO 01/91818A1	12/2001	PCT Int'l (Abstract)			X	

OTHER ART

*EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
EM	E10	Baldwin, M.L. et al., Irradiation of Blood Components, pp. 10-78 (1992) (American Association of Blood Banks)
EM	E11	Baquete, C. et al., Radiosterilization of Albuminated Polyester Prostheses, Biomaterials, 8:185-189 (1987)
EM	E12	Bassin, R.H. et al., Abrogation of Fv-1 ^b Restriction With Murine Leukemia Viruses Inactivated by Heat or by Gamma Irradiation, Journal of Virology, 26:306-315 (1978) (American Society for Microbiology)

EXAMINER Elizabeth L
McKane

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EM	A53	6,060,233	05/2000	Wiggins			
	A54	6,066,626	05/2000	Yew et al.			
	A55	6,087,141	07/2000	Margolis-Nunno et al.			
	A56	6,120,592	09/2000	Brault et al.			
	A57	6,159,490	12/2000	Deghenghi			
	A58	6,171,549	01/2001	Kent			
	A59	6,187,572	02/2001	Platz et al.			
	A60	6,190,855	02/2001	Herman et al.			
	A61	6,197,207	03/2001	Chapman et al.			
	A62	6,203,544	03/2001	Gotzen			
	A63	6,214,534	04/2001	Horowitz et al.			
	A64	6,235,508	05/2001	Sowemimo-Coker et al.			
EM	A65	6,258,821	07/2001	Stogniew et al.			

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER'S INITIALS	CITE NO.	*PATENT APPLN. PUB. NO.	*PUBLICATION DATE	*APPLICANT	CLASS	SUBCLASS	FILING DATE
EM	B5	US2003/0068815 A1	04/10/03	STONE et al.	435	325	05/17/02

U.S. PATENT APPLICATIONS

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	C5						

FOREIGN PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*PUBLICATION DATE	*COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
EM	D21	EP 0 808 167 B1	06/05/02	EPO				
	D22	EP 0 820 301 B1	07/24/02	EPO				
	D23	WO 00/28552	05/18/00	PCT				
	D24	WO 00/52031	09/08/00	PCT				
EM	D25	JP 408098688A	04/16/96	Japan			Abs	

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*EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
EM	E13	Beauregard, G. et al., Temperature Dependence of the Radiation Inactivation of Proteins, Analytical Biochemistry, 150:117-120 (1985) (Academic Press Inc.)
EM	E14	Bedrossian Jr., E.H. et al., HIV and Banked Fascia Lata, Ophthalmic Plastic and Reconstructive Surgery, 7:284-288 (1991) (Raven Press Ltd.)
EM	E15	Belov, A.A. et al., The Influence of γ -Radiation on Enzyme Activity of Collalitin in the Process of Storage, Radiobiologija, 30:519-521(1990)

EXAMINER Elizabeth L McKane
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EM	E16	Bingci, L., Mouse Antibody Response Following Repetitive Injections of Gamma-Irradiated Human Placenta Collagen, Chinese Medical Sciences Journal, 9:100-103 (1994)
	E17	Blakeslee, S., Lack of Oversight in Tissue Donation Raising Concerns, The New York Times, Late Edition, pp. 1, 22 (January 20, 2002) (http://query.nytimes.com)
	E18	Blanchy, B.B. et al., Immobilization of Factor VIII on Collagen Membranes, J. Biomedical Materials Research, 20:469-479 (1986) (John Wiley & Sons, Inc.)
	E19	Block, S.S., Disinfection, Sterilization, and Preservation,, Fourth Edition, pp. 31-33 (1991) (Lea & Febiger) (Philadelphia)
	E20	Bogers, A.J.J.C. et al., Long-Term Results of the Gamma-Irradiation-Preserved Homograft Monocusp for Transannular Reconstruction of the Right-Ventricular Outflow Tract in Tetralogy of Fallot, Thorac. Cardiovasc. Surgeon, 42:337-339 (1994) (Georg Thieme Verlag Stuttgart)
	E21	Borisova, E.A. et al., Protein Degradation During Interphase Death of Thymocytes Induced by Radation and Dexamethasone, Radiobiologia, 30:517-519 (1990)
	E22	Boyer, T.D. et al., Radiation Inactivation of Microsomal Glutathione S-Transferase, The Journal of Biological Chemistry, 261:16963-16968 (1986)
	E23	Brown, D.R. et al., Antioxidant Activity Related to Copper Binding of Native Prion Protein, J. Neurochem., 76:69-76 (2001) (Int'l Society for Neurochem.)
	E24	Brown, P. et al., The Distribution of Infectivity in Blood Components and Plasma Derivatives in Experimental Models of Transmissible Spongiform Encephalopathy, Transfusion, 38:810-816 (1998)
	E25	Brown, P. et al., Effect of Chemicals, Heat and Histopathologic Processing on High-Infectivity Hamster-Adapted Scrapie Virus, J. Infectious Diseases, 145:683-687 (1982) (University of Chicago)
	E26	Brown, P. et al., Further Studies of Blood Infectivity in an Experimental Model of Transmissible Spongiform Encephalopathy, With an Explanation of Why Blood Components Do Not Transmit Creutzfeldt-Jakob Disease in Humans, Transfusion, 39:1169-1178 (1999)
	E27	Brown, P., The Risk of Blood-Borne Creutzfeldt-Jakob Disease, Advances in Transfusion Safety Dev. Biol., 102:53-59 (1999)
	E28	Burwell, R.G., The Fate of Freeze-Dried Bone Allografts, Transplantation Proceedings, 8(Suppl):95-111 (1976)
	E29	Callegaro, L. et al., Hollow Fiber Immobilized L-Asparaginase: In Vivo and In Vitro Immunological Studies, The International Journal of Artificial Organs, 6:91-96 (1983) (Wichtig Editore)
	E30	Campalani, G. et al., Aortic Valve Replacement With Frozen Irradiated Homografts, Eur. J. Cardio-thorac. Surg., 3:558-561 (1989) (Springer-Verlag)
↓	E31	Campbell, D.G. et al., Sterilization of HIV With Irradiation: Relevance to Infected Bone Allografts, Aust. N.Z. J. Surg., 69:517-521 (1999)
EM	E32	Chanderkar, L.P. et al., The Involvement of Aromatic Amino Acids in Biological Activity of Bovine Fibrinogen as Assessed by Gamma-Irradiation, Radiation Research, 65:283-291 (1976) (Academic Press, Inc.)
EXAMINER	Elizabeth L McKane	<small>Digitally signed by Elizabeth L. McKane DN: cn=Elizabeth L. McKane, c=US, o=1700, ou=1744, email=elizabeth. mckane@uspto.gov Date: 2007.02.19 15:51:57 -0500</small>
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EM	E33	Chanderkar, L.P. et al., Radiation-Induced Changes In Purified Prothrombin and Thrombin, <i>Biochimica et Biophysica Acta</i> , 706:1-8 (1982) (Elsevier Biomedical Press)
	E34	Cheung, D. T. et al., The Effect of γ -Irradiation on Collagen Molecules, Isolated α -chains, and Crosslinked Native Fibers, <i>J. Biomedical Materials Research</i> , 24:581-589 (1990) (John Wiley & Sons, Inc.)
	E35	Chin, S. et al., Virucidal Treatment of Blood Protein Products With UVC Radiation, <i>Photochemistry and Photobiology</i> , 65:432-435 (1997) (American Society for Photobiology)
	E36	Chuchalin, A.G. et al., Clinical Immunosorbents Basing on Space-Network Polymers, <i>Bioorg Khim</i> , 14:1524-1529 (1988) (Russia)
	E37	Cohen, D. J. et al., The Fate of Aortic Valve Homografts 12 to 17 Years After Implantation, <i>Chest</i> , 93:482-484 (1988)
	E38	Conrad, E. U. et al., Transmission of the Hepatitis-C Virus by Tissue Transplantation, <i>J. Bone and Joint Surgery</i> , 77-A:214-224 (1995)
	E39	Cornu, O. et al., Effect of Freeze-Drying and Gamma Irradiation on the Mechanical Properties of Human Cancellous Bone, <i>J. Orthopaedic Research</i> , 18:426-431 (2000)
	E40	Dagli, A. S., Correction of Saddle Nose Deformities by Coral Implantation, <i>Eur. Arch. Otorhinolaryngol.</i> , 254:274-276 (1997) (Springer-Verlag)
	E41	Defeng et al., Sterilization of Silver-Acidum Pipemedicum Skin for the Treatment of Burns by Radioactive Cobalt-60-Gamma-Ray, <i>Radiat. Phys. Chem.</i> , 46:4-6 (Caplus Abstract No. 1995:923966) (1995)
	E42	De Deyne, P. et al., Some Effects of Gamma Irradiation on Patellar Tendon Allografts, <i>Connective Tissue Research</i> , 27:51-62 (1991) (Gordon and Breach Science Publishers S. A.)
	E43	Di Simplicio, P. et al., The Reactivity of the SH Group of Bovine Serum Albumin With Free Radicals, <i>Free Rad. Res. Comm.</i> , 14:253-262 (1991) (Harwood Academic Publishers GmbH)
	E44	Donnelly, R.J. et al., Gamma-radiation of Heart Valves at 4°C; A Comparative Study Using Techniques of Histochemistry and Electron and Light Microscopy, <i>Thorax</i> , 28:95-101 (1973)
	E45	Dyskin, E.A. et al., Hemomicrocirculatory Bed in the Wall of Hollow Organs of the Dog Gastrointestinal Tract at Portal Hypertension, <i>Ark. Anat Gistol Embiol</i> , 93:58-68 (1987)
	E46	Dziedzic-Goclawska, A. et al., Effect of Radiation Sterilization on the Osteoinductive Properties and the Rate of Remodeling of Bone Implants Preserved by Lyophilization and Deep-Freezing, <i>Clinical Orthopaedics and Related Research</i> , 272:30-37 (1991)
	E47	Eichler, D.C. et al., Radiation Inactivation Analysis of Enzymes, <i>J. Biological Chemistry</i> , 262:9433-9436 (1987)
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	E180	
	E181	
	E182	

EXAMINER **Elizabeth L McKane**

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**LIST OF PRIOR ART CITED BY
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APPLICANT
Randall S. KENT and Edward HORTON

FILING DATE
October 29, 2003

GROUP
1744

U.S. PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE
EM	A1	4,994,237	02/19/91	LOGIN et al.	422	21	11/13/89
	A2	6,383,732 B1	05/07/02	STONE	435	1.1	06/01/00
	A3	4,727,027	02/23/88	WIESEHAHN et al.	435	173	10/07/85
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	A13	5,965,349	10/12/99	LIN et al.	435	2	03/17/97
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*EXAMINER'S INITIALS	CITE NO.	*PATENT APPLN. PUB. NO.	*PUBLICATION DATE	*APPLICANT	CLASS	SUBCLASS	FILING DATE
	B1						

U.S. PATENT APPLICATIONS

*EXAMINER'S INITIALS	CITE NO.	*APPLN. NO.	*FILING DATE	*INVENTOR	CLASS	SUBCLASS	
	C1						

FOREIGN PATENT DOCUMENTS

*EXAMINER'S INITIALS	CITE NO.	*PATENT NO.	*PUBLICATION DATE	*COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
	D1							
	D2							
	D3							

OTHER ART

*EXAMINER'S INITIALS	CITE NO.	(AUTHOR, TITLE, DATE, PERTINENT PAGES, PUBLISHER, PLACE OF PUBLICATION)
	E1	
	E2	
	E3	

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